

1

gat acc ttc ccg gat gca gat gct gat gaa gac agt ctg gca ggc gag 240  
 Asp Thr Phe Pro Asp Ala Asp Ala Asp Glu Asp Ser Leu Ala Gly Glu  
 65 70 75 80

ctg gat gag gcc atg ggg tcc agc gag tgg ctg gcc ctg acc aag tca 288  
 Leu Asp Glu Ala Met Gly Ser Ser Glu Trp Leu Ala Leu Thr Lys Ser  
 85 90 95

ccc cag gcc ttt tac agg ggg cga ccc agc tgg caa gga acc cct ggg 336  
 Pro Gln Ala Phe Tyr Arg Gly Arg Pro Ser Trp Gln Gly Thr Pro Gly  
 100 105 110

gtt ctt cgg ggc agc cga gat gtc ctg gct ggc ctt tcc agc agc tgc 384  
 Val Leu Arg Gly Ser Arg Asp Val Leu Ala Gly Leu Ser Ser Ser Cys  
 115 120 125

tgc aag tgg ggg tgt agc aaa agt gaa atc agt agc ctt tgc tag 429  
 Cys Lys Trp Gly Cys Ser Lys Ser Glu Ile Ser Ser Leu Cys \*  
 130 135 140

<210> 2

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2

Met Ala Arg Tyr Met Leu Leu Leu Leu Leu Ala Val Trp Val Leu Thr  
 1 5 10 15  
 Gly Glu Leu Trp Pro Gly Ala Glu Ala Arg Ala Ala Pro Tyr Gly Val  
 20 25 30  
 Arg Leu Cys Gly Arg Glu Phe Ile Arg Ala Val Ile Phe Thr Cys Gly  
 35 40 45  
 Gly Ser Arg Trp Arg Arg Ser Asp Ile Leu Ala His Glu Ala Met Gly  
 50 55 60  
 Asp Thr Phe Pro Asp Ala Asp Ala Asp Glu Asp Ser Leu Ala Gly Glu  
 65 70 75 80  
 Leu Asp Glu Ala Met Gly Ser Ser Glu Trp Leu Ala Leu Thr Lys Ser  
 85 90 95  
 Pro Gln Ala Phe Tyr Arg Gly Arg Pro Ser Trp Gln Gly Thr Pro Gly  
 100 105 110

Val	Leu	Arg	Gly	Ser	Arg	Asp	Val	Leu	Ala	Gly	Leu	Ser	Ser	Ser	Cys
		115					120					125			
Cys	Lys	Trp	Gly	Cys	Ser	Lys	Ser	Glu	Ile	Ser	Ser	Leu	Cys		
	130					135						140			

<210> 3  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Cysteine motif

<221> VARIANT  
 <222> (3)...(13)  
 <223> Each Xaa is independently any amino acid residue  
 except cysteine.

Leu	Cys	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys
1				5				10					

<210> 4  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Motif

<221> VARIANT  
 <222> (3)...(5)  
 <223> Each Xaa is independently any amino acid residue  
 except cysteine.

<221> VARIANT  
 <222> (4)...(14)  
 <223> Each Xaa is independently any amino acid residue  
 except cysteine.

<400> 4

Cys Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys  
 1 5 10 15

<210> 5  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Motif

<221> VARIANT  
 <222> (2)...(4)  
 <223> Each Xaa is independently any amino acid residue  
 except cysteine.

<400> 5  
 Arg Xaa Xaa Xaa Arg  
 1 5

<210> 6  
 <211> 426  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Degenerate polynucleotide sequence encoding the  
 polypeptide of SEQ ID NO:2.

<221> variation  
 <222> (1)...(426)  
 <223> Each N is independently A, T, G, or C.

<400> 6  
 atggcnmgnt ayatgytnyt nytnytnytn gcngtntggg tnytnacngg ngarytntgg 60  
 ccnggngcng argcnmgngc ngcnccntay ggngtnmgny tntgyggngm ngarttyath 120  
 mgngcngtna thttyacntg yggnggnwsn mgntggmgm gnwsngayat hytngcncay 180  
 gargcnatgg gngayacntt yccngaygcn gaygcngayg argaywsnyt ngcngngar 240  
 ytngaygarg cnatgggnws nwsngartgg ytngcnytna cnaarwsncc ncargcntty 300  
 taymgnggnm gncnwsntg gcarggnacn ccnggngtny tnmngngnws nmngngaygtn 360

ytngcnggny tnwsnwsnws ntgytgyaar tggggntgyw snaarwsnga rathwsnwsn 420  
ytntgy 426

<210> 7  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide ZC9736

<400> 7  
ccatacccct gaccctgtt gagat 25

<210> 8  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Oligonucleotide ZC9740

<400> 8  
cagaggttcc ctgataccca cacat 25

<210> 9  
<211> 55  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Exon 1 sense oligonucleotide primer

<400> 9  
tgaagaaggt ctcgaattcg tcgacaccat ggccaggtac atgctgctgc tgctc 55

<210> 10  
<211> 45  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Exon 1 antisense oligonucleotide primer

<400> 10

tgaagaaggt ctcactccca tagcctcgtg ggccaggatg tctga

45

<210> 11

<211> 41

<212> DNA

<213> Artificial Sequence

<220>

<223> Exon 2 sense oligonucleotide primer

<400> 11

tgaagaaggt ctcaggagat accttcccgg atgcagatgc t

41

<210> 12

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

<223> Exon 2 antisense oligonucleotide primer

<400> 12

tgaagaaggt ctctctagaa ctctagcaaa ggctactgat ttcacttttg ct

52

<210> 13

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> conserved motif

<221> VARIANT

<222> (1)...(4)

<223> Xaa = Any Amino Acid

<400> 13

Arg Xaa Xaa Arg

1